		26	Hub or disk		
1.11 R	WITH CONDITION INDICATOR	27	Pivoted wheel		
1.11 W	.Wear	28			
1.11 L	Electrical	29	.Top shoes		
1.11 E	Electrical	30	.one-way		
1.12	TO RETARD ROLLING OF CASTER	31	.Positive lock		
2 R	VEHICLE	32	On ground		
3 R	.Train	33	.Railway		
3 H	Fluid pressure vehicle	34	Train		
4 R	.Wheel and ground	35			
4 B	Rotary brake member	35 36	Wheel and rail		
5	.Ground-engaging	37	Roller shoe		
6	Sprag	38	Roller shoe		
7	Anchors				
8	Sled	38.5	Plural abutments selectively		
9	.Wagon		engageable by vehicle-carried		
10	Four-wheel	39	means, e.g., car spotter		
11	Divided beam		Rotary shoe		
12	Running gear support	40	Slot		
13	Divided beam	41	Rail		
14	Hayrack type	42	Carrier type		
15	Retreating shoe	43	Grippers		
16	.Independent wheel	44	Automatic		
17	.Hub or disk	45	Wheel clamps		
18 R	Motor vehicle	46	Equalizing series		
18 A	Disc brakes	47	Connected trucks		
19	.Cart	48	Maximum traction type		
20	.Children's carriages	49	Four wheel opposing		
21	.Truck	50	Open center		
22	Two-wheel	51	Divided beam		
23	Ground-engaging	52	Four wheel spreading		
24.11	.Velocipede (e.g., bicycle, etc.)	53	Divided beam		
24.12	Including mechanism for opposed	54	Locomotive type		
	gripping of wheel rim or tire	55	Mine car type		
24.13	Wheel rim configured to	56	Clasp		
	cooperate with components	57	Top shoes		
24.14	Having means to increase	58	Disk on axle		
	braking force (e.g., self-	59	Side shoes		
	energizing brake, etc.)	60	Positive lock		
24.15	Variable leverage actuator	61	One-way		
24.16	Plural brakes having common	62	On track		
	actuator	63	Catchers		
24.17	Actuation controlled by back-	2 A	.Braking torque regulators		
	pedalling	2 D	.Bowdin wire-operated		
24.18	With means to lock brake in	2 F	.Wheelchair brakes		
	actuated position	64	WHEEL AND STRAND		
24.19	Having means to adjust spacing	65.1	STRAND		
	between brake component and	65.2	.With attaching means		
	wheel rim or tire	65.3	.Plural brakes		
24.21	Having center-pull, cable-type	65.4	.Tortuous grip		
	actuator for mechanism	65.5	Adjustable		
24.22	Specific actuator element	67	ROD		
	structure		WHEEL		
25	Roller	68	.Frictional and positive		

69	.Positive lock	73.43	Including actuator slidable in		
70 R	.Axially and transversely movable		plane parallel to axis of		
70 B	Self-energizing		rotation of wheel		
71.1	.Axially movable brake element or	73.44	On axially extending pin		
	housing therefor	73.45	Plural pins		
71.2	With clutch between load and	73.46	Including actuator fixed on		
	brake assemblage		torque member		
71.3	Antipodal, relatively separable	73.47	Having closed loop type		
	brake elements		housing		
71.4	Annular elements	74	.Transversely movable		
71.5	Plural rotating elements (e.g.,	75	Opposing		
	"multidisc")	76	Rim grip		
71.6	With means for cooling brake	77 R	Strap		
71.7	With means to adjust for wear	77 W	Wrap band type		
	of brake	78	Expanding		
71.8	Self-adjusting means	79	Multiple sets		
71.9	Including unidirectionally	323	Three shoes		
	rotating screw	324	Rotary cam operatively		
72.1	With means for actuating brake		abutting shoe ends		
	element	325	Two shoes		
72.2	Self-force-increasing means	326	Operators at both ends of		
72.3	And means for retracting brake	320	each shoe		
, = • •	element	327	Anchors adjacent unoperated		
72.4	By fluid pressure piston	32,	ends		
72.5	Piston for each of plural	328	Common anchor pivot or		
72.5	elements	520	abutment		
72.6	And/or mechanical linkage	329	Rotary cam abutting shoe		
72.7	By inclined surface (e.g.,	327	ends		
72.7	wedge, cam or screw)	330	Rotary cam abutting shoe		
72.8	Screw or helical cam	330	ends		
72.9	By pivoted lever	331	Adjacent ends operatively		
73.1	Structure of brake element	331	connected and not anchored to		
73.2	Circumferential or		support		
75.2	circumferentially spaced	332	Rotary cam abutting shoe		
73.31	Retainer for brake element	332	ends		
73.31	Having means to facilitate	333	One end anchored		
13.32	changing brake element	334	Anchors at alternate ends		
73.33	By manipulation of brake	335	Radially guided shoe		
13.33		336	Continuous split band		
73.34	actuator	337	Anchored intermediate ends		
	Pivotable actuator	338	Rotary cam operatively		
73.35	Having actuator and means to	330	abutting band ends		
72 26	prevent vibration thereof	339			
73.36	Including means to prevent	339	Rotary cam operatively		
F2 2F	vibration of brake element	240	abutting band ends		
73.37	Having means to prevent	340	Lateral guide for shoe		
<b></b>	vibration of brake element	341	Anchor		
73.38	Spring	342	Self-energizing		
73.39	Including torque member	343	Wedge operator		
E 2 41	supporting brake element	79.51	Having wear take up or		
73.41	Including actuator pivotable	E0 =0	compensating structure		
	in plane parallel to axis of	79.52	Temperature responsive		
72 42	rotation of wheel	79.53	Feeler actuated		
73.42	And slidable in that plane				

79.54	Actuated in conjunction with	266	INTERNAL-RESISTANCE MOTION
,,,,,	other braking element	200	RETARDER
79.55	Actuated by brake operating	267	.Using magnetic flux
	lever	267.1	.Electroviscous or
79.56	Having separate adjustment		electrorheological fluid
	actuator mechanism	267.2	.Magnetic fluid or material
79.57	Manually operated		(e.g., powder)
79.58	Brake operator length	266.1	.Motion damped from condition
	adjusted		(e.g., bump, speed change)
79.59	Mounted between shoe and a		detected outside of retarder
	support member	266.2	Condition actuates valve or
79.61	Causes direct, simultaneous		regulator
	adjustment of plural shoes	266.3	Of the rotary type
79.62	Located on or in an operator	266.4	Having plural openings
79.63	Mounted between shoe and a	266.5	Of the pulsating or
	support member		reciprocating type
79.64	Between plural supporting	266.6	Side mounted
	shoes	266.7	.Piezoelectric
80	.Rotary shoes	266.8	.With failure or malfunction
82.1	.One-way brakes		detection
82.2	Reversible	268	.Using yieldable or fluent solid
82.3	With disabler		or semisolid
82.34	Integral with engager	269	.Using diverse fluids
82.4	With hold out	270	.Operating against ambient
82.5	Combined or plural diverse	0.7.1	atmosphere
	types	271	.Combined with surface-friction
82.6	Biased flexible band	272	brake
82.7	Pivoting or flexing detent	212	.Combined with mechanism retarded
00 74	(e.g., pawl)	273	by brake
82.74	Axially moving	273	Restricting exhaust from engine .With heat exchanger
82.77	On rotating member	274	.With fluid regulated in response
82.8 82.84	Dragged wedging member	275	to inertia of valve member
82.84	Rolling	276	.With means compensating for
83	Axially moving .Continuous	270	change in temperature or
84	.Fixed brake		viscosity
85	.Intermittent	277	Thermostatic valve type
371	PLASTIC DEFORMATION OR BREAKAGE	278	Manually adjustable
3/1	OF RETARDER ELEMENT (E.G.,	280	Relative speed of thrust member
	IMPACT ABSORBER)		or fluid flow
372	.And subsequent reverse	281	.Resistance alters relative to
572	deformation		direction of thrust member
373	.Element twisted		(e.g., high resistance in one
374	.Element extruded through or		direction, low in the other)
	around tool	282.1	Via valved orifice in thrust
375	.Element severed by cutting tool		member
376	.Frangible element	282.2	Valve actuated by electrical
377	.Crushable element		system
378	INERTIA OF DAMPING MASS	282.3	System initiated by a
	DISSIPATES MOTION (E.G.,		pressure change or feedback
	VIBRATION DAMPER)	282.4	System having distinct
379	.Resiliently supported damping		selections (e.g., hard,
	mass	000 -	medium, soft)
380	Supported by mechanical spring	282.5	Flexible flap-type valve
			(e.g., compression washers)

282.6	Having flow passage, cutout, aperture, slot, etc.	305	Piston reciprocating along axis of oscillation
282.7	Ball-type valve	306	Arcuately oscillating thrust member
282.8 282.9	Spring-loaded valveAdjusting the tension via (a)	307	Resilient or radially urged vane
283	compressing or expanding or (b) different strength springs	308	Causing fluid flow through hub
203	<pre>.Piston having a restrictable   opening (e.g., apertured   plate) in a fixed volume</pre>	309	<pre>of thrustWith manually adjusted valve in hub</pre>
	chamber	310	With means for manually
283.1	Vortex flow passages		adjusting fluid flow
284	.Position of thrust member relative to chamber	312	Having piston rod extending through ends of chamber
285	Having a fluid flow passage	313	With valve controlling fluid
	adjusted manually (e.g.,		flow between chambers or
	threaded plug, threaded rod,		compartments of the chamber
	gearing)	314	With reservoir for fluid
286	Having aperture in chamber wall	315	Annular reservoir
287	Plural, successively encountered apertures	316	Fluid through or around piston within chamber
288	Having varying area of chamber	317	Via fixed or variable orifice
	passageway for thrust member	31,	in piston
289	Having varying area of metering rod extending through orifice	318	And passage venting fluid external to chamber
	in thrust member	319.1	Having an orifice adjustment
290	.Using a rotary-type fluid damper	017.1	for both jounce or bound
291	Including clutch		(compression) and rebound
292	Gear pump	319.2	Orifice size varied using a
293	Driving relatively moving		hand or hand tool
	element which causes flow of	320	Tortuous path orifice
	brake fluid	322.13	.Valve structure or location
294	With means for regulating	322.14	Foot valve
	movement of element	322.15	Piston valve detail (e.g., seat
295	Comprising rectilinearly reciprocating piston		<pre>design, structural arrangement, metering element)</pre>
296	Driving radial vanes which	322.16	.Including seal or guide
	cause toroidal flow of brake	322.17	Between piston rod and cylinder
	fluid	322.18	Between piston and cylinder
297	.Having a thrust member with a	322.19	.Cylinder structure
	variable volume chamber (e.g.,	322.2	Having connection for side-
	coaxial or telescoping tubes,	322.2	mounted valve type
	compensating reservoir)	322.21	Having means for filling or
298	Forming flexible wall enclosure for fluid		recharging
301	Causing air suction in chamber	322.22	.Thrust member or piston
	_		structure
302	Rectilinear reciprocation of piston caused by arcuately	322.12	.Including protective shield for retarder
	oscillating frame, shaft, arm, axle, etc.	321.11	.Including means connecting
303	Pistons reciprocating	000 1	thrust member to load
<del>-</del>	oppositely in nonaligned cylinders	299.1	.Controlled by an operator (e.g., vehicle driver) remote from
304	Dual pistons	200	retarder
	• • •	300	.With means for locking parts together temporarily

200 5	The land of the second	1.40	December 2
322.5	.Using viscosity of fluid medium	149	Drawbar
381	FRICTIONAL VIBRATION DAMPER	150	Speed-responsive
105	OPERATORS	140 A	Servo brake
105	.Multiple	151 R	.Fluid pressure
106 R	Vehicle	152	Road vehicle
107	Railway	344	Velocipede
106 F	Fluid and mechanical	345	With multiple master cylinders
106 A	Inside wheel	346	With friction drag response
106 P	Plural systems	347	With hydraulic quick-slack-
108	.Vehicle step		take-up pulsator
109	.Seat	348	With power quick-slack-take-up
110	.Automatic	349	With front rear brake
	Vehicle		apportioner
111	Trips	350	With steering gear control
112 R	Train	351	With hydraulic automatic slack
112 A	Anti-sway control		adjuster
113	Four-wheel	352	With bleeding or filling
114	Hub		device
	Auxiliary mechanism on tongue	353	With hydraulic lock
115	Rear wheel	354	With independent wheel control
116	Divided beam	355	With nonmanual fluid-power
117	Front wheel		source
118	Divided beam	356	Vacuum power
	Movable tongue	357	And manual
119	Rising and falling	358	Liquid power
120	Rear wheel	359	And manual
121	Divided beam	360	And manual
122	Front wheel	361	Wheel brake operating assembly
123	Divided beam	362	With transversely movable
	Railway		internal brake
124	Train	363	Motor between shoe ends
125	Drawbar	364	Dual opposed piston motor
126	Speed-responsive	365	Radially acting motor
127	Strain release	366	Arcuate or annular motor
128	Sled	367	Axially acting
129	Rise and fall	368	Axially acting motor
130	Rotary	369	With axially movable brake
131	Turning		member
132	Horse pull	370	Spot type
134	Differential movement	153 R	Rail vehicle
135	Momentum	153 D	Diaphragm
136	Wedging shoe	153 A	Rim grip type
137	Electric control	154	Exhaust of propelling motor
138	Vehicle	151 A	Safety devices
139	Gravity control	155	.Fluid current
140 R	Vehicle	156	.Electric and mechanical
141	Fluid-pressure control	157	Electric motor on staff
142	Draft control	158	.Electric
143	Wheel and ground	159	Dynamic
144	Railway	160	Additional current
145	Winding	161	Electromagnet
146	Axle	162	Rotary motor
147	Train	163	Solenoid
148	Push rod	164	Magnetic circuit
	<del> </del>		

165	Rail-engaging	206 R	Brake element		
166	.Spring	207	Beam		
167	Vehicle	208	Road vehicle		
168	Draft release	209	Brackets		
169	Wagon	210	Safety		
170	Fluid-pressure release	211	Locks		
171	Electric release	212	Parallel motion		
173	Vehicle	213	Multiple-point support		
174	.Weight	214	Wear compensation		
175	Draft control	215	Brake shoes		
176	Vehicle body	206 A	Anchor		
177	Inclined	205 A	Antirattler		
178	Longitudinally movable	205 A 216	.Release mechanism		
179	Float	217	.Release mechanism .Brake-thrust distributors		
119		217	ELEMENTS		
100	.Speed-responsive	010 D			
180	Regulators	218 R	.Brake wheels		
181 R	Vehicle	218 XL	Disk type		
181 A	Acceleration responsive	218 A	Dust guard		
181 C	Comparative	219.1	.Beams or beam assemblies		
181 T	Torque-responsive	219.6	With movable, reversible or		
182	Fluid and electric control		adjustable heads		
184	Transversely expanding	220.1	Pivoted head		
185	Radial	220.6	Lockingly adjustable		
186	Transversely contracting	221.1	Yieldably readjustable		
187	Axially moving	222.1	With fixed head or thrust block		
188	Strand-engaging	222.6	Integral head and beam		
189	Stops	223.1	Trussed beam		
	POSITION ADJUSTERS	223.6	Head or block held by tension		
190	POSITION ADJUSTERS .Vehicle body movement				
190 191			$\ldots$ Head or block held by tension		
	.Vehicle body movementRadius rod	223.6	Head or block held by tension element		
191 192	.Vehicle body movementRadius rodTurning	223.6	Head or block held by tension elementTension adjusted by terminal		
191 192 193	.Vehicle body movementRadius rodTurningRailway	223.6 224.1	Head or block held by tension elementTension adjusted by terminal nutTrussed beam		
191 192 193 194	.Vehicle body movementRadius rodTurningRailwayPivoted wheel	223.6 224.1 225.6	<ul><li>Head or block held by tension element</li><li>Tension adjusted by terminal nut</li><li>Trussed beam</li><li>Integral tension and</li></ul>		
191 192 193 194 195	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load	223.6 224.1 225.6 226.1	Head or block held by tension elementTension adjusted by terminal nutTrussed beamIntegral tension and compression member		
191 192 193 194 195 196 R	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .Slack	223.6 224.1 225.6	Head or block held by tension elementTension adjusted by terminal nutTrussed beamIntegral tension and compression memberTubular compression member		
191 192 193 194 195 196 R 197	.Vehicle body movement .Radius rod .TurningRailwayPivoted wheel .Load .Slack .Railway car	223.6 224.1 225.6 226.1 228.1	Head or block held by tension elementTension adjusted by terminal nutTrussed beamIntegral tension and compression memberTubular compression memberH, I, L, T, U, V, or X cross		
191 192 193 194 195 196 R 197 198	.Vehicle body movement .Radius rod .TurningRailwayPivoted wheel .Load .Slack .Railway carAutomatic	223.6 224.1 225.6 226.1 228.1 228.6	Head or block held by tension elementTension adjusted by terminal nutTrussed beamIntegral tension and compression memberTubular compression memberH, I, L, T, U, V, or X cross section compression member		
191 192 193 194 195 196 R 197 198	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutch	223.6 224.1 225.6 226.1 228.1 228.6	Head or block held by tension elementTension adjusted by terminal nutTrussed beamIntegral tension and compression memberTubular compression memberH, I, L, T, U, V, or X cross section compression memberWith strut-type fulcrum		
191 192 193 194 195 196 R 197 198 199 200	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet bar	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6	<ul> <li>Head or block held by tension element</li> <li>Tension adjusted by terminal nut</li> <li>.Trussed beam</li> <li>Integral tension and compression member</li> <li>Tubular compression member</li> <li>H, I, L, T, U, V, or X cross section compression member</li> <li>With strut-type fulcrum</li> <li>Reversible</li> </ul>		
191 192 193 194 195 196 R 197 198 199 200 201	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShims	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231	Head or block held by tension elementTension adjusted by terminal nutTrussed beamIntegral tension and compression memberTubular compression memberH, I, L, T, U, V, or X cross section compression memberWith strut-type fulcrumReversibleWith fulcrum		
191 192 193 194 195 196 R 197 198 199 200 201 201	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrew	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232	Head or block held by tension elementTension adjusted by terminal nutTrussed beamIntegral tension and compression memberTubular compression memberH, I, L, T, U, V, or X cross section compression memberWith strut-type fulcrumReversibleWith fulcrumReversible		
191 192 193 194 195 196 R 197 198 199 200 201 202 203	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operated	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233	Head or block held by tension elementTension adjusted by terminal nutTrussed beamIntegral tension and compression memberTubular compression memberH, I, L, T, U, V, or X cross section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpaced		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluid	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3	<pre>Head or block held by tension    elementTension adjusted by terminal    nutTrussed beamIntegral tension and    compression memberTubular compression memberH, I, L, T, U, V, or X cross    section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guards</pre>		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombined	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233	<pre>Head or block held by tension    elementTension adjusted by terminal    nutTrussed beamIntegral tension and    compression memberTubular compression memberH, I, L, T, U, V, or X cross    section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross</pre>		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C 196 F	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombinedTorsional spring	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3 233.7	<pre>Head or block held by tension    elementTension adjusted by terminal    nutTrussed beamIntegral tension and    compression memberTubular compression memberH, I, L, T, U, V, or X cross    section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross    section beam</pre>		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C 196 F 196 M	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombinedTorsional springManual	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3 233.7	Head or block held by tension elementTension adjusted by terminal nutTrussed beamIntegral tension and compression memberTubular compression memberH, I, L, T, U, V, or X cross section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross section beam .Shoe fasteners		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C 196 F 196 M 196 P	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombinedTorsional springManualFriction	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3 233.7	<pre>Head or block held by tension    elementTension adjusted by terminal    nutTrussed beamIntegral tension and    compression memberTubular compression memberH, I, L, T, U, V, or X cross    section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross    section beam .Shoe fastenersLocomotive type</pre>		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C 196 F 196 M 196 P 196 B	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombinedTorsional springManualFrictionRatchet	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3 233.7 234 235 236	Head or block held by tension elementTension adjusted by terminal nutTrussed beamIntegral tension and compression memberTubular compression memberH, I, L, T, U, V, or X cross section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross section beam .Shoe fastenersLocomotive typeHeads		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C 196 F 196 M 196 P 196 B	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombinedTorsional springManualFrictionRatchetRotatable	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3 233.7 234 235 236 237	<pre>Head or block held by tension    elementTension adjusted by terminal    nutTrussed beamIntegral tension and    compression memberTubular compression memberH, I, L, T, U, V, or X cross    section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross    section beam .Shoe fastenersLocomotive typeHeadsCombined wheel guards</pre>		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C 196 F 196 M 196 P 196 B 196 BA 196 D	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombinedTorsional springManualFrictionRatchet	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3 233.7 234 235 236 237 238	<pre>Head or block held by tension    elementTension adjusted by terminal    nutTrussed beamIntegral tension and    compression memberTubular compression memberH, I, L, T, U, V, or X cross    section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross    section beam .Shoe fastenersLocomotive typeHeadsCombined wheel guardsMultiple shoes</pre>		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C 196 F 196 M 196 P 196 B	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombinedTorsional springManualFrictionRatchetRotatable	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3 233.7 234 235 236 237 238 239	<pre>Head or block held by tension    elementTension adjusted by terminal    nutTrussed beamIntegral tension and    compression memberTubular compression memberH, I, L, T, U, V, or X cross    section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross    section beam .Shoe fastenersLocomotive typeHeadsCombined wheel guardsMultiple shoesSuperposed</pre>		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C 196 F 196 M 196 P 196 B 196 BA 196 D	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombinedTorsional springManualFrictionRatchetRotatableFrictional rotation	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3 233.7 234 235 236 237 238 239 240	<pre>Head or block held by tension    elementTension adjusted by terminal    nutTrussed beamIntegral tension and    compression memberTubular compression memberH, I, L, T, U, V, or X cross    section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross    section beam .Shoe fastenersLocomotive typeHeadsCombined wheel guardsMultiple shoesSuperposedLinear arrangement</pre>		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C 196 F 196 M 196 P 196 B 196 BA 196 D 196 V	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombinedTorsional springManualFrictionRatchetRotatableFrictional rotationScrew, shim or cam	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3 233.7 234 235 236 237 238 239 240 241	elementTension adjusted by terminal nutTrussed beamIntegral tension and compression memberTubular compression memberH, I, L, T, U, V, or X cross section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross section beam .Shoe fastenersLocomotive typeHeadsCombined wheel guardsMultiple shoesSuperposedLinear arrangementFrangible connection		
191 192 193 194 195 196 R 197 198 199 200 201 202 203 196 A 196 C 196 F 196 M 196 P 196 B 196 BA 196 D 196 V 204 R	.Vehicle body movementRadius rodTurningRailwayPivoted wheel .Load .SlackRailway carAutomaticFriction clutchRatchet barShimsScrewFluid-operatedFluidCombinedTorsional springManualFrictionRatchetRotatableFrictional rotationScrew, shim or cam .Equalizers	223.6 224.1 225.6 226.1 228.1 228.6 229.1 229.6 231 232 233 233.3 233.7 234 235 236 237 238 239 240	<pre>Head or block held by tension    elementTension adjusted by terminal    nutTrussed beamIntegral tension and    compression memberTubular compression memberH, I, L, T, U, V, or X cross    section compression memberWith strut-type fulcrumReversibleWith fulcrumReversibleSpacedWith guides and/or guardsH, I, L, T, U, V, or X cross    section beam .Shoe fastenersLocomotive typeHeadsCombined wheel guardsMultiple shoesSuperposedLinear arrangement</pre>		

243		Longitudinal key		
244		Longitudinal insertion	DIGESTS	_
245		Side insertion		
246		Clamps	DIG 1	PANIC BRAKING
247		Shoe-back lugs	DIG 2	HILL HOLDER
248		Cast in		
249		Flexible shoes		
250	R	.Shoes		
		Composite		
252		Flanged		
253		Recessed		
254		Shells		
255		Cast metal matrix		
256		Nonmetallic inserts		
257		Faces		
258		Backs		
259		Flexible		
251	A	Materials		
251	M	Metallic surfaces		
260		Chills		
261		Recessed		
262		Rotary		
250		Transversely expandable		
		One-piece		
	С			
	D			
250		Slotted shoes and vibration		
		dampers		
250	F	Anchor and operator fittings		
250	G	Surfaces and fasteners		
250	В	Shoe construction		
264	R	.Cooling and lubricating		
264	A	Air-cooled, axially engaging		
264	AA	Auto wheel type		
264	В	Lubrication		
264	D	Liquid cool		
264	E	Wet friction surface and		
		internal resistance		
264	F	Operating fluid cooling		
264	CC	Contained coolant		
264		Insulators		
264		With pump		
264	W	External wheel covers		
265		.Locks		
382		MISCELLANEOUS		

## FOREIGN ART COLLECTIONS

FOR CLASS-RELATED FOREIGN DOCUMENTS